

Android Automotive SIG - VHAL

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February 2021



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Usecase:

Track 1

• Application wants to read the current fuel level and the tank capacity

Requirements:

- Read access for signals needs to be protected by a permission: org.genivi.vss.permission.FUEL_SYSTEM_READ
- Permission needs to be granted by an authority which is secure
- Data needs to be defined and structured according to VSS
- Data needs to be accessible by the framework as well





Track 2





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Track 2 - vehicle HAL implementation WSC _

- Flat the VSS hierarchy
- Map some of the "fields" to the one supported by hidl
- Loose "branch" type for grouping the properties
- Translation module for properties that are defined differently by both standards (translation of units or datatypes)

#		/**
# Tire #	Vss2android.py	* Tire pressure
 Tire: type: branch description: Tire signals for wheel 		 * min/max value indicates tire pressure sensor range. Each tire will have a separate min/max * value denoted by its areaConfig.areald. *
- Tire.Pressure: datatype: uint8 type: sensor unit: kpa description: Tire pressure in kilo-Pascal		* @change_mode VehiclePropertyChangeMode:CONTINUOUS * @access VehiclePropertyAccess:READ ✓ @unit VehicleUnit:KILOPASCAL
		*/ TIRE_PRESSURE = (0x0309
		VehiclePropertyGroup:SYSTEM ▶ VehiclePropertyType:FLOAT VehicleArea:WHEEL),

Contributing

Weekly telcos: Tuesdays – 17:00 CET (US friendly time) – Vehicle Data APIs / VHAL Android Automotive Project Wiki : https://at.projects.genivi.org/wiki/x/XgA4Ag



Thank you!

Contact W3C Transport and Automotive groups:

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https://www.w3.org/auto/

Visit GENIVI: http://www.genivi.org http://projects.genivi.org

